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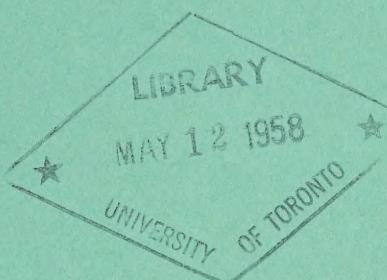
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Canada, Forest Products Laboratories

Canada

Department of Northern Affairs and National Resources

FORESTRY BRANCH



OTTAWA

VANCOUVER

REVISED, APRIL 1958

FOREST PRODUCTS LABORATORIES OF CANADA
Chief - J. H. Jenkins

Superintendent, Ottawa Laboratory
H. Schwartz

Superintendent, Vancouver Laboratory
K.G. Fensom

Cat. No R52-257

FOREWORD

The Forest Products Laboratories of Canada, are a Division of the Forestry Branch of the Department of Northern Affairs and National Resources, Canada. Two laboratories are in operation, one in Ottawa, Ontario, the other at Vancouver, British Columbia.

Research at both laboratories follows generally similar lines and is concerned with the determination of the mechanical, physical, and chemical properties of Canadian commercial timber species. Research and investigations extend to the fields of conversion and utilization. All research work - fundamental and applied - is planned for the obtention of data and information essential to an informed utilization of wood.

A laboratory was first established in Montreal in 1913, and the Vancouver unit began operations in 1917. In 1927 the Montreal unit was transferred to Ottawa, where it has since been located.

During the more than forty years during which forest products research has been carried on by the F.P.L. of C., an extensive and comprehensive record of data and information has been accumulated.

As data have become available, and whenever their importance has been deemed sufficient, they have served as the basis of reports of various types. This has been done in order to make widely available the results obtained through research, so that they could serve as basic information for the planning of industrial improvements and developments.

This is the continuing policy of the F.P.L. of C., and new publications are prepared and released whenever warranted.

LIST OF PUBLICATIONS

Publications and reports of the Forest Products Laboratories of Canada (which include the two research units - Forest Products Laboratory, Ottawa, and the Forest Products Laboratory, Vancouver) cover all phases of forest products research. This list includes printed publications, mimeographed reports and reprints of articles and papers, available for distribution. It excludes (1) papers and articles in periodicals for which copies are not available for distribution, and (2) publications for which distribution copies are no longer available.

The publications are listed under the following subject headings:

1. Mechanical Properties and Laminated Construction.
2. Plywood, Adhesives, and Dielectric Heating.
3. Containers and Packaging.
4. Wood Preservation.
5. Wood Pathology.
6. Paints and Protective Coatings.
7. Wood Structure.
8. Wood Uses, Manufacture, and Waste Utilization.
9. Wood as Fuel.
10. Lumber Seasoning.
11. Wood Chemistry.
12. Miscellaneous.

Publications printed in English are shown in Part A; those in French are listed in Part B.

The origin of each publication is indicated by the symbol (O) for the Ottawa Laboratory and (V) for the Vancouver Laboratory. In the case of bulletins, circulars, and reprints, this symbol is placed after the title but with the numbered mimeographed reports, the symbol is shown as a prefix to the report number. The series of numbered circulars has been discontinued.

Requests for publications, other than those for which there is a charge, should be addressed to:

Forest Products Laboratory,
Department of Northern Affairs and
National Resources,
Ottawa, Ontario.

or

Forest Products Laboratory,
c/o University of British Columbia,
Vancouver 8, B.C.

Publications for which there is a charge are marked with an asterisk. Requests for these publications, together with cheque or money order payable to the Receiver General of Canada, should be addressed to:

Queen's Printer,
Ottawa, Ontario.



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PART A - ENGLISH PUBLICATIONS

1. Mechanical Properties and Laminated Construction

Bulletin 104 Effect of Exposure on Douglas Fir Crossarms, W.E. Wakefield, 1952 - (O).

" 119 Determination of the Strength Properties and Physical Characteristics of Canadian Woods, W.E. Wakefield, 1956 - (O).

Circular 28 Strength Tests of Creosoted Douglas Fir Beams, J.F. Harkom and G.H. Rochester, 1930 - (O).

" 29 Strength Tests of Creosoted Douglas Fir Railway Ties, J.F. Harkom and J.B. Alexander, 1931 - (O-V).

" 31 Strength of Telephone Poles, Eastern Cedar, Red Pine and Jack Pine - Revised 1947 - (O).

" 34 Strength and Spike-Retention Properties of Jack Pine Ties Affected with Red Stain and Red Rot, G.H. Rochester, 1932 - (O).

" 37 Red Stain in Jack Pine, Clara W. Fritz and G.H. Rochester, 1933 - (O).

" 41 Western Red Cedar: Significance of its Heartwood Colourations, H.W. Eades and J.B. Alexander, 1934 - (V).

" 46 Western Hemlock Ties, J.B. Alexander, 1936 - (V).

" 51 Comparison of the Mechanical and Physical Properties of the Heartwood and Sapwood of Yellow Birch, W.E. Wakefield - (O).

" 53 Brown-Stain in Sugar Maple, its Effect on Mechanical and Physical Properties, W.E. Wakefield, 1938 - (O).

" 55 Wooden Tanks in Industry, M.J. Brophy, 1939 - (O).

" 63 Red Stain and Pocket Rot in Jack Pine - Their Effect on Strength and Serviceability of the Wood, 1948 - (O).

" 64 Effect of Kiln-Drying Upon the Strength of Western Hemlock, J.B. Alexander and C.F. Archer, 1947 - (V).

" 65 Strength of Jack Pine Poles Infected with Pocket Rot, D.E. Kennedy and W.E. Wakefield, 1948 - (O).

Tech. Note 3- Strength and Related Properties of Wood Grown in Canada.

- * Mechanical and Physical Properties of Canadian Woods, W.E. Wakefield - (Chapter 4 of the book "Canadian Woods: Their Properties and Uses", 1951). Price 25¢. (0).
- * Glued Laminated Construction and Timber Fastenings, D.E. Kennedy and J.M. Rudnicki - (Chapters 11 and 13 of book "Canadian Woods: Their Properties and Uses", 1951). Price 25¢. (0).
- 0-111 - Strength and Spike Holding Quality of Jack Pine Ties Containing Red Rot, D.E. Kennedy, 1947.
- 0-138 - Trip-L-Grip Framing Anchors, J.M. Rudnicki and D.E. Kennedy, 1948.
- 0-152 - Construction and Testing of a Glued Laminated Wooden Arch of 47-foot Span, D.E. Kennedy, 1950.
- V-1014 - Test Loading of a Composite Concrete Timber Deck Bridge, J.B. Alexander, 1953.
- V-1016 - Dimensional Changes in Poles Caused by Seasoning, W.J. Smith, 1954.
- V-1021 - The Strength of Mountain Douglas Fir Telephone Poles, W.M. McGowan, 1956.

Worm Holes in Jack Pine - D.E. Kennedy. (Reprinted from Timber of Canada, Jan. 1957) - (0).

The Efficiency of Scarf Joints. A.P. Jessome. (Reprinted from "Canadian Woodworker", June 1956) - (0).

Wood Piles - Specifications and Mechanics, J.B. Alexander. (Reprinted from Forest Products Research Society Journal, 1953) - (V).

Panels for House Construction, W. Thornber, 1948 - (0).

Physical and Mechanical Properties of Second-Growth Douglas Fir, J.B. Alexander. (Reprint A.S.T.M. Bulletin 169, Oct. 1950) - (V).

Changes in Circumferential Dimensions of Douglas Fir Poles During Seasoning, W.J. Smith. (Reprint B.C. Lumberman, June 1951) - (V).

Stress Grading as Related to Mechanical Properties of Wood. W.J. Smith, Vancouver Laboratory. (Reprinted from "The Parthenon", Sept. 1953) - (V).

Strength of Fire-Killed Timbers. W.J. Smith. (Reprinted from Prairie Lumberman, April 1955) - (V).

2. Plywood, Adhesives and Dielectric Heating

Bulletin 96 Animal Glues and Their Use in Woodworking, G.L. Rosser, 1939 - (0).

" 110 Dielectric Heating as Applied to the Woodworking Industries, R.W. Peterson, 1954 - (0).

Circular 50 Vegetable Glues for Plywood and Veneers, G.L. Rosser and W. Gallay, 1937 - (0).

Tech. Note 4- The Dielectric Properties of Resin Glues for Wood. T.J.S. Cole and O.S. Roscoe - (0).

* Veneers, Plywoods and Wood Adhesives, D.G. Miller - (Chapter 10 of the book "Canadian Woods: Their Properties and Uses", 1951). Price 25¢ - (0).

0-121 - Tension Normal to Glue Line Plywood Tests, W.E. Wakefield, Revised 1947.

0-134 - Control of Moisture in Wood Glued with Room-Temperature-Setting Urea-Formaldehyde Resins, E.G. Bergin, 1948.

0-137 - Effect of Wood Moisture Content on Gluing, E.G. Bergin, 1948.

0-151 - Dielectric Properties of Wood, R.W. Peterson, 1949.

0-177 - Curved Plywood. Its Production and Application in the Furniture Industry, D.G. Miller, 1953.

How to Glue Pre-treated Laminating Stock, P.L. Northcott. (Reprinted from Canada Lumberman, October 1957) - (V).

White Elm Veneer and Plywood, A.O. Feihl. (Reprinted from Timber of Canada, Sept. 1956) - (0).

Cutting White Spruce Veneers for Plywood, A.O. Feihl. (Reprinted from Canadian Woodworker, November 1956) - (0).

Veneer and Plywood from Aspen Poplar, A.O. Feihl. (Reprinted from Canadian Woodworker, Jan. 1958) - (0).

Manufacture of Lumber-Core Plywood, D.G. Miller. (Reprinted from Timber of Canada, Nov.-Dec. 1950) - (0).

Curved Plywood - A Modern Mass Production Material, R.W. Peterson, 1950 - (0).

Glued Joint Failures and Their Causes, E.G. Bergin. (Reprinted from B.C. Lumberman, July, 1951) - (0).

Polyvinyl Resin Emulsion Woodworking Glues, E.G. Bergin. (Reprinted from Canadian Woodworker, July, 1951) - (0).

Gluing Characteristics of Various Eastern Canadian Wood Species, E.G. Bergin. (Reprinted from Canadian Woodworker, December 1953) - (0).

Significance of Wood Failure in Glued Joints, E.G. Bergin. (Reprinted from Canadian Woodworker, March 1953) - (0).

Bond Strength as Indicated by Wood Failure or Mechanical Test, P.L. Northcott. (Reprinted from Forest Products Journal, April 1955) - (V).

Development of the Glue-Line Cleavage Test, P.L. Northcott. (Paper presented at National Annual Meeting, Forest Products Research Society, 1952) - (V).

Edge-Gluing by Dielectric Heating, R.W. Peterson. (Reprinted from Canadian Woodworker, Feb. 1952) - (0).

Radio-Frequency Power Requirements for Edge-Gluing, R.W. Peterson. (Reprinted from "Wood", Sept. 1951) - (0).

Rotary-Cutting of Curly Yellow Birch, O. Feihl. (Reprinted from Canadian Woodworker, May and June 1955) - (0).

The Effect of Dryer Temperatures Upon the Gluing Properties of Douglas Fir Veneers, P.L. Northcott. (Reprinted from Forest Products Journal) - (V).

3. Containers and Packaging

Circular 24 Strength of Reinforced and Unreinforced Butter and Cheese Boxes. G.H. Rochester, 1929 - (0).

" 39 The Design of Wooden Boxes, R.S. Millett 1948 - (0).

0-106 - Effect of Slant Driving on the Holding Power of Nails. R.S. Millett, 1938.

Recent Developments in Containers, W. Butterworth. (Paper presented at the National Annual Meeting, Forest Products Research Society, 1950) - (0).

Domestic and Overseas Shipping Need Efficient Protective Packs, W. Butterworth. (Reprinted from Canadian Packaging, June 1951) - (0).

A Scientific Approach to the Design of Wood Containers and the Design and Use of Pallets. J.M. Rudnicki. (Reprinted from Forest Products Journal, April 1955) - (0).

Effects of Moisture Content on Strength and Use of Nailed Wooden Boxes, C.H. Nethercote. (Reprinted from Lumber Dealer and Buyer, Sept. 1957) - (0).

* Shipping Containers, W. Butterworth. (Chapter 12 of book "Canadian Woods: Their Properties and Uses", 1951). Price 25¢ - (0).

4. Wood Preservation and Other Treatments

Circular 26 Creosote Treatment of Douglas Fir, J.F. Harkom, 1929 - (0).

" 28 Strength Tests of Creosoted Douglas Fir Beams, J.F. Harkom and G.H. Rochester, 1930 - (0).

" 29 Strength Tests of Creosoted Douglas Fir Railway Ties, J.F. Harkom and J.B. Alexander, 1931 - (0-V).

" 36 Leaching Tests on Water-Soluble Preservatives, C. Greaves, 1933 - (0).

Bulletin 107 Preservative Treatment of Fence Posts by Non-Pressure Processes, M.J. Colleary, 1953 - (0).

* Preservative Treatment of Wood, J.F. Harkom. (Chapter 7 of the book "Canadian Woods: Their Properties and Uses", 1951). Price 25¢ - (0).

0-105-55 - Durability Data on Treated and Untreated Timbers, (Ties) J. Krzyzewski, 1955.

0-105-55 - Durability Data on Treated and Untreated Timbers, (General) J. Krzyzewski, 1955.

0-126 - Laboratory and Service Tests of Pentachlorophenol and Copper Naphthenate as Wood Preservatives, J.F. Harkom and H.P. Sedziak, 1947.

0-131 - Preservative Treatment of Poles by End Boring, J.F. Harkom. Revised, 1947.

0-149 - Accelerated Testing of Wood Preservatives, including Wood Block Soil Technique. H.P. Sedziak, 1949.

0-160 - Absorption and Penetration of Greensalt Solutions in Mountain Douglas Fir and Eastern Spruce, M.J. Colleary, 1951

0-166 - Hot and Cold Bath Preservative Treatment of Jack Pine and Spruce Crossarms with Pentachlorophenol Solution, J. Krzyzewski. (Reissued 1954).

0-173 - Wood Preservatives and Their Application. (Reissued 1954).

0-174 - Treatment of Fence Posts of Non-Durable Species with Modern Water-Borne Preservatives by the Butt Diffusion Method, J. Krzyzewski. May, 1956.

0-175 - Penetration and Exudation of Oil in Sections of Pine Poles Treated with Creosote-Pentachlorophenol Mixtures. H.P. Sedziak, 1956.

Some Physical Factors Influencing the Effectiveness of Preservatives, T.S. McKnight. (Reprinted from Forest Products Journal, December, 1957) - (0).

Preservative Treatment of Douglas Fir and Western Hemlock Sleepers in Canada, C. Greaves. (Paper presented at Annual Meeting, British Wood Preserving Association, 1951) - (0).

Evaluation of Two Modern Wood Preservatives, H.P. Sedziak. (Paper presented at National Annual Meeting, Forest Products Research Society, 1952) - (0).

Vapour Pressures in Western Hemlock Heartwood During Boiling-Under-Vacuum in Creosote. G. Bramhall and W.M. Connors. (Reprinted from Forest Products Journal, August, 1955) - (V).

An Evaluation of the Factors which Affect the Rate of Drying of Round Western Hemlock During the Boiling-Under-Vacuum Process, W.M. Connors and G. Bramhall. (Reprinted from Forest Products Journal) - (V).

5. Wood Pathology (incl. Sap Stain and Mould Prevention)

Bulletin 113 Streaky Red Heart in Douglas Fir, H.W. Eades and J.B. Alexander, 1954 - (V).

" 116 Sap Stain and Mould Prevention on British Columbia Softwoods, H.W. Eades, 1956 - (V).

Circular 37 Red Stain in Jack Pine, Clara W. Fritz and G.H. Rochester, 1933 - (0).

" 41 Western Red Cedar: Significance of its Heartwood Colourations, H.W. Eades and J.B. Alexander, 1934 - (V).

" 58 Decay in Red-Stained Jack Pine Ties Under Service Conditions, C.W. Fritz and E.A. Atwell, 1941 - (0).

Circular 61 Cause and Prevention of Decay in Wooden Buildings with Particular Reference to the Coastal Region of British Columbia, H.W. Eades, 1945 - (V).

" 63 Red Stain and Pocket Rot in Jack Pine - Their Effect on Strength and Serviceability of the Wood, 1948 - (0).

Tech. Note 1- Decay and Discolourations in Poplar Pulpwood, E.A. Atwell - (0).

Deterioration of Logging Residue on the B.C. Coast, J.W. Roff. (Reprinted from B.C. Lumberman, June 1953) - (V).

* Decay and Stains in Wood, C.W. Fritz. (Chapter 6 of book "Canadian Woods: Their Properties and Uses", 1951). Price 25¢ - (0).

V-1007 - Sap Stain and Mould Prevention - The Relative Efficacy of Certain Chemicals, H.W. Eades and J.W. Roff, 1950.

V-1019 - Wooden Scows - Some Factors Affecting Their Durability, H.W. Eades. (Revised, 1956).

V-1023 - Red Heart Stain of Lodgepole Pine Logs in the Northern Interior of British Columbia, H.W. Eades and J.W. Roff.

Removal of Moss from Shingle Roofs, H.W. Eades. (Reprinted from British Columbia Lumberman, March 1951) - (V).

Toxicity Tests of a Water-Soluble Phenolic Fraction (Thujaplicin-Free) of Western Red Cedar, J.W. Roff and J.M. Atkinson. (Reprinted from Canadian Journal of Botany, January 1954) - (V).

Regulation of Aeration in Wood Soil Contact Culture Technique, H.W. Eades and J.W. Roff. (Reprinted from Journal of Forest Products Research Society, Sept. 1953) - (V).

6. Paints and Protective Coatings

0-150 - General Information on Wood Paints and Coatings, R.C. Hubbard, 1949.

Blistering of Paints on Wood, J.J.G. Veer. (Reprinted from Lumber Dealer and Buyer, Aug. 1957) - (0).

Moisture Blistering of Paints on Wood, J.J.G. Veer. (Reprinted from Forest Products Journal, October 1957) - (0).

7. Wood Structure

Bulletin 94 Density and Rate of Growth in the Spruces and Balsam Fir of Eastern Canada, J.D. Hale and J.B. Prince, 1940 - (0).

" 100 Effects of Chemical Treatment of Pulpwood Trees, D.C. McIntosh, 1951 - (0).

Circular 30 Rate of Growth and Density of the Wood of White Spruce, J.D. Hale and K.G. Fensom, 1931 - (0).

* Structure of Wood, J.D. Hale. (Chapter 3 of book "Canadian Woods: Their Properties and Uses", 1951). Price 25¢ - (0).

0-158 - Studies of the Floating Properties of Pulpwood Logs, D.C. McIntosh, 1951.

Determination of the Fibre-Saturation Point of Wood by Centrifuging, E. Ferem. (Reprinted from Journal of the Forest Products Research Society, April 1954) - (0).

Effect of Rays on Radial Shrinkage of Beech, D.C. McIntosh. (Reprinted from Forest Products Journal, Feb. 1955) - (0).

Shrinkage of Red Oak and Beech, D.C. McIntosh. (Reprinted from Forest Products Journal, Oct. 1955) - (0).

The Structure of Wood, J.D. Hale. (Reprinted from Timber of Canada, April 1955) - (0).

Thickness and Density of Bark. Trends of Variation for Six Pulpwood Species, J.D. Hale. (Reprinted from Pulp and Paper Magazine of Canada, Dec. 1955) - (0).

Transverse Shrinkage of Red Oak and Beech, D.C. McIntosh. (Reprinted from Forest Products Journal, March, 1957) - (0).

The Anatomical Basis of Dimensional Changes of Wood in Response to Changes in Moisture Content, J.D. Hale. (Reprinted from Forest Products Journal, April 1957) - (0).

Is Spiral Grain the Normal Growth Pattern? P.L. Northcott. (Reprinted from B.C. Lumberman, April 1958) - (V).

Spiral Grain in Red Alder, R.W. Kennedy and G.K. Elliott. (Reprinted from The Forest Chronicle, Sept. 1957) - (V).

8. Wood Uses, Manufacture and Waste Utilization

Bulletin 98 Red Alder in British Columbia, K.W. Rymer, 1951 - (V).

" 99 Factors Influencing the Manufacture of Sawlogs into Lumber in Eastern Canada, G.E. Bell, 1951 - (O).

" 103 Wood Waste Utilization in Canada, J.H. Jenkins. (Presented at Sixth British Commonwealth Forestry Conference, 1952).

" 108 Use of Sawmill Waste for Pulp in Eastern Canada, G.E. Bell, 1953 - (O).

" 109 Utilization of Sawmill Waste in the Southern Coast Region of British Columbia, F.W. Guernsey, 1953 - (V).

" 114 Yellow Cedar: Its Characteristics, Properties and Uses, R.S. Perry, 1954 - (V).

" 115 Logging Waste in Eastern Canada, J.A. Doyle, 1955 - (O).

Circular 35 Effect of Seasoning on the Buoyancy of Logs, K.G. Fenson and E.S. Fellows, 1932 - (O).

Tech. Note 5- Effect of Tree Size of Spruce and Balsam Fir on Harvesting and Conversion to Lumber in Nova Scotia, J.A. Doyle - (O).

Tech. Note 6- Wood Residues as Pulp Material and Developments in Wallboard Production, J.A. Doyle and F. Bender - (O).

Tech. Note 7- A Pulp Chip Program to Utilize Sawmill Residue, G.E. Bell - (O).

0-169 - Use of Short-Log Bolters, W.W. Calvert, 1953.

0-176 - Sawing Hardwood for Grade with Short Log Bolters, G.E. Bell and W.W. Calvert, 1955.

V-1006 - Report on the Utilization of Sawmill Waste for Pulpwood, C.F. McBride and K.W. Rymer, 1949 - (V).

V-1011 - Properties and Uses of Black Cottonwood, K.W. Rymer and F.W. Guernsey, 1951.

V-1013 - Sawmill Residue in the Prince George Area of British Columbia, C.F. McBride, 1952.

V-1015 - Logging and Milling Balsam, C.F. McBride and G.R.W. Nixon, 1954.

V-1017 - Breakage and Other Losses in Logging on the British Columbia Coast, G.R.W. Nixon, 1955.

V-1020 - Factors Affecting Lumber Recovery from Spruce in the Prince George Area of British Columbia, C.F. McBride, 1956.

A Review of Canadian Forestry Utilization Practices, J.H. Jenkins. (Paper delivered to Annual Meeting, Canadian Institute of Forestry, Chicoutimi, October 1956).

Skidding Time Studies in the B.C. Southern Interior, D.C. Gunn and F.W. Guernsey. (Reprinted from B.C. Lumberman). - (V).

Chain Flail Barkers and Slabwood Concentration Yards, G.E. Bell. (Reprinted from Timber of Canada, Oct. 1957) - (O).

Economics of Barking and Chip Production, G.E. Bell. (Reprinted from Unasylva, Nov. 1957) - (O).

Study of Logging Waste in Saskatchewan Spruce Operations, J.A. Doyle. (Reprinted from Canada Lumberman, August 1954) - (O).

Logging Waste Survey in Alberta, G.R.W. Nixon and R.W. Kennedy. (Reprinted from Prairie Lumberman, Nov. 1956) - (V).

Felling and Bucking Time Studies, G.R.W. Nixon and D.C. Gunn. (Reprinted from B.C. Lumberman, April 1957) - (V).

Felling and Bucking Losses in the Southern Interior of British Columbia, G.R.W. Nixon and D.C. Gunn. (Reprinted from B.C. Lumberman, Mar. 1957) - (V).

Grading Hardwood Logs for Factory Lumber, W.W. Calvert. (Reprinted from Timber of Canada, May 1957) - (O).

Your Circular Headrig - How to Get the Most From It. G.W. Andrews. (Reprinted from Timber of Canada, Jan. 1958) - (O).

F.F.L.'s War Against Wood Waste. (Reprinted from Canada Lumberman, February, 1957).

Progress in the Utilization of Sawmill Waste for Pulpwood, J.H. Jenkins. (Reprinted from Pulp and Paper Magazine of Canada, April 1956).

Lumber Handling at the Rear of the Sawmill, G.E. Bell and P.E. Martin. (Reprinted from Timber of Canada, April 1951) - (O).

Gang saw Production Higher in Small Log Conversion, G.E. Bell. (Reprinted from Canada Lumberman, Sept. 1951) - (O).

Adjustable Sawmilling Gauge, G.W. Andrews. (Reprinted from Timber of Canada, May, 1954) - (0).

Power at the Headsaw, G.W. Andrews. (Reprinted from Timber of Canada, April 1954) - (0).

Lumber and Pickets. A Comparison of Recovery by Two Edging Methods, G.W. Andrews. (Reprinted from Timber of Canada, July 1954) - (0).

Sawing Wood with Circular Headsaws, G.W. Andrews. (Reprinted from Forest Products Journal, June 1955) - (0).

A Logging Study in a Typical Overmature Spruce-Balsam Forest of the Southern Interior of British Columbia, G.R.W. Nixon, Vancouver Laboratory. (Reprinted from British Columbia Lumberman, Jan. 1955) - (V).

Losses Incurred in Drying and Dressing Lumber in the Southern Interior of British Columbia, C.F. McBride. (Reprinted from Forest Products Journal, June 1955) - (V).

Utilization of Western Hemlock Sawmill Waste in British Columbia, F.W. Guernsey. (Reprinted from British Columbia Lumberman, Nov. 1946) - (V).

Lumber Recovery from Douglas Fir Logs in British Columbia, C.F. McBride. (Reprinted from Forest Products Research Society, 1949) - (V).

Cord-Cubic Volume Relationship of Slabwood and Edgings. G.E. Bell and E. Brooks. (Reprinted from Timber of Canada, Nov. 1954) - (0).

Effect of Ambrosia Beetle Damage Upon Lumber Values, C.F. McBride. (Reprinted from British Columbia Lumberman, Sept. 1950) - (V).

Lumber Recovery from Second-Growth Western Hemlock, C.F. McBride. (Reprinted from British Columbia Lumberman, June 1951) - (V).

Trends in Wood Utilization in British Columbia, K.G. Fensom. (Paper presented at B.C. Natural Resources Conference, 1952) - (V).

The Furniture Industry in B.C., K.G. Fensom. (Reprinted from Forest Products Journal, Dec. 1954) - (V).

Wood Flour Production in Canada, E.H. Buckley. (Reprinted from Canada Lumberman, May 1952) - (0).

9. Wood as Fuel

Bulletin 101 Sawdust as Fuel in Eastern Canada, 1951 - (0).

Circular 47 Wood and Charcoal as Motor Fuel, J.H. Jenkins and F.W. Guernsey, 1936 - (V).

" 48 Utilization of Sawmill Waste and Sawdust for Fuel, J.H. Jenkins and F.W. Guernsey, 1937 - (V).

0-89 - Heating Value of Wood Fuels, J.D. Hale, 1933. (Reissued, 1952).

0-127 - Use of Sawdust as Fuel at Portable and Small Stationary Type Sawmills, C.F. Baltzer and J.B. Prince. (Issued in co-operation with the Fuel Research Laboratories).

Use of Wood for Heating Logging Camps, J.H. Jenkins. (Paper presented at Annual Meeting, Woodlands Section, Canadian Pulp and Paper Association, 1948).

10. Lumber Seasoning

Bulletin 102 Moisture Content Changes in Seasoned Lumber in Storage and in Transit, 1952 - (V).

" 111 Kiln-Drying of British Columbia Lumber, J.H. Jenkins and F.W. Guernsey, 1954 - (V).

Circular 52 Change in Moisture Content of Yard-Piled Softwood Lumber in Eastern Canada, E.S. Fellows, 1937 - (0).

Tech. Note 2- High-Temperature Kiln-Drying of Eastern Canadian Softwoods, J.L. Ladell - (0).

* Seasoning of Lumber, R.S. Millett. (Chapter 5 of book "Canadian Woods: Their Properties and Uses", 1951). Price 25¢ - (0).

V-100 - Rusting of Cans in Wooden and Fibreboard Boxes, H.W. Eades, 1945.

V-104 - Air-Seasoning of Timbers, Poles and Ties. A Study of the Air-Seasoning Rate and Moisture Gradient in the Southern Coast Region of British Columbia, 1950.

V-1012 - Kiln-Drying Schedules for British Columbia Woods, C.F. Archer, 1952.

V-1018 - The Moisture Content of Lumber - Its Determination and Effect on Weight, 1956. (Revision of V-102).

0-128 - Drying Schedules for Different Species, R.S. Millett. (Revised 1949 - Reissued 1952).

0-147 - Piling Lumber for Kiln-Drying and Its Care after Drying, R.S. Millett. (Reissued 1954).

High Temperature Drying of Yellow Birch, J.L. Ladell. (Reprinted from Forest Products Journal, Nov. 1956) - (0).

High Temperature Drying of British Columbia Softwoods, F.W. Guernsey. (Reprinted from Forest Products Journal, October 1957) - (V).

Losses Incurred in Drying and Dressing Lumber in the Southern Interior of B.C., C.F. McBride. (Reprinted from Forest Products Journal, June 1955) - (V).

Collapse in Western Red Cedar, F.W. Guernsey. (Reprinted from British Columbia Lumberman, April 1951) - (V).

Deterioration of Wooden Dry Kilns Used for Drying Western Hemlock Lumber, H. MacLean and J.A.F. Gardner. (Reprinted from The Lumberman, December, 1951) - (V).

An Evaluation of Factors Affecting the Rate of Drying of Round Western Hemlock During the Boiling Under Vacuum Process, W.M. Conners and G. Bramhall. (Reprinted from Forest Products Journal, June 1957) - (V).

Table of Relative Humidity and Approximate Equilibrium Moisture Content of Wood, 1949 - (0).

Variation Throughout the Year in Moisture Content of Some Wooden Building Components. E. Brooks. (Reprinted from Timber of Canada, April, 1956) - (0).

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